

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/598963	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 09:58
S2	2	"20050167630"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:00
S3	2	10/891148	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:02
S4	1	11/858506	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:03
S5	2	10/305458	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:05
S6	3	("4051545"   "4661883"   "5345119").PNL	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:29
S7	94	(solenoid relay) near driv \$3 near circuit\$3 same (zener zenner)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:31
S8	525	361/152.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:31
S9	120	S8 and (zener zener)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 10:32
S10	94	(solenoid relay) near driv \$3 near circuit\$3 same (zener zenner)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 12:13

S11	525	361/152.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 12:13
S12	120	S11 and (zenner zener)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 12:13
S13	113	S12 not S10	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 12:13
S14	2	"3397322"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 13:30
S15	878	(solenoid relay coil induct \$3) same (transistor switch) with resistor near parallel	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 13:38
S16	30	(solenoid relay coil induct \$3) same (transistor switch) near resistor near parallel	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/19 13:38
S17	14	("1700029"   "3585902"   "4050085"   "4065096"   "4201116"   "4948093"   "5108070"   "5208483"   "5328150"   "5441232"   "5603244"   "5628296"   "5899436").PN. OR ("6687553").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/19 13:55
S18	30	(solenoid relay coil induct \$3) same (transistor switch) near resistor near parallel	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:06
S19	263	(solenoid relay coil induct \$3) same (transistor switch) near3 resistor near parallel	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:06
S20	1	(solenoid relay coil induct \$3) same (transistor switch) with resistor near parallel and (solenoid relay coil induct\$3) near (zener)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:08

S21	14	(solenoid relay coil induct \$3) same (transistor switch) same resistor same parallel and (solenoid relay coil induct \$3) near (zener)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:09
S22	3445	(solenoid relay coil induct \$3) same (resistor resistance) with parallel with transistor	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:17
S23	15	(solenoid relay coil induct \$3) same (resistor resistance) with parallel with transistor and (solenoid relay coil induct \$3) near parallel near diode	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:18
S24	997	(solenoid relay coil induct \$3) same (resistor resistance) with parallel with transistor and (solenoid relay coil induct \$3) with parallel with diode	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:22
S25	319	(solenoid relay coil induct \$3) same (resistor resistance) with parallel with transistor and (solenoid relay coil induct \$3) near3 parallel near3 diode	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 11:23
S26	56	"4376263"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 12:46
S27	2	09/884189	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 12:51
S28	0	("6687553").URPN.	USPAT	OR	ON	2009/03/23 12:51
S29	14	("1700029"   "3585902"   "4050085"   "4065096"   "4201116"   "4948093"   "5108070"   "5208483"   "5328150"   "5441232"   "5603244"   "5628296"   "5899436").PN. OR ("6687553").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/23 12:52

S30	3	(4661883 5345119 4051545).pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/03/23 13:15
S31	3	("4032823"   "4274122"). PN. OR ("4661883"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/23 19:12
S32	1	voltage near dependent near resistor with (switch transistor mos fet bjt bipolar) with cascade	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/12 18:17
S33	38	hans near adams.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/12 18:28
S34	7	bernd near kammerer.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/12 19:53
S38	37	("4509019"   "4894734"   "4945311"   "5182478"). PN. OR ("5345119"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/13 11:47
S50	17	valve same (solenoid relay coil) and voltage near dependent near resistor	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/13 16:14
S51	510	valve same (solenoid relay coil) and resistor near3 (across parallel) near3 (switch transistor mos fet bjt bipolar)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/13 16:22
S52	171	valve with (solenoid relay coil) and resistor near2 (across parallel) near2 (switch transistor mos fet bjt bipolar)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/13 16:23
S53	0	("2005/0117265").URPN.	USPAT	OR	ON	2010/04/13 16:30
S54	11	("3149293"   "3470892"   "3726473"   "3735148"   "3870931").PN. OR ("4090664").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/13 17:48
S55	21	("3525021"   "3582715"   "3737736"   "4065096"   "4114184").PN. OR ("4291358").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/13 18:09

S56	36	("3391547"   "3410301"   "3419034"   "3477460"   "3509825"   "3547154"   "3789876"   "3916213"   "3916926"   "3921670"   "4074700"   "4259982"   "4635683"   "4679766"   "4787414"   "4886114"   "4974622"   "4981173"   "5145323"   "5293551"). PN. OR ("5632468"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/13 19:22
S57	7	("20020074194"   "20040095183"   "5834826"   "5969964"   "5973943"   "6772737"   "6853232").PN. OR ("7133268").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/13 19:39
S58	21	("3525021"   "3582715"   "3737736"   "4065096"   "4114184").PN. OR ("4291358").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/14 09:28
S59	1110	(361/152,154).ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 09:42
S60	10	("3116441").URPN.	USPAT	OR	ON	2010/04/14 10:12
S61	6	("3590334").URPN.	USPAT	OR	ON	2010/04/14 10:13
S62	17	("0922218"   "1007671"   "1909855"   "3396314"   "3590334"   "4086503"   "4214290"   "Re24671"). PN. OR ("4998177"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/14 10:21
S63	30	("4656400").URPN.	USPAT	OR	ON	2010/04/14 11:47
S64	7	"6459553"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:07
S65	337	power near (transistor switch fet mos bjt bipolar) with simultaneous	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:26
S66	105	power near (transistor switch fet mos bjt bipolar) with simultaneous and (valve solenoid coil)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:28

S67	50	power near (transistor switch fet mos bjt bipolar) with simultaneous and (valve solenoid)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:35
S68	0	plurality near power near (transistor switch fet mos bjt bipolar) with simultaneous and (valve solenoid)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:40
S69	5	plurality near power near (transistor switch fet mos bjt bipolar) with simultaneous	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:40
S70	190	plurality near (transistor switch fet mos bjt bipolar) with simultaneous	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:41
S71	55	S66 not S67	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:43
S72	4935	(driv\$3 control\$3) with (solenoid relay) and plurality near (transistor switch fet mos bjt bipolar)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:44
S73	0	(driv\$3 control\$3) with (solenoid relay) and plurality near (transistor switch fet mos bjt bipolar) with simultaneous	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:44
S74	17	(driv\$3 control\$3) with (solenoid relay) and plurality near (transistor switch fet mos bjt bipolar) with simultaneous	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/14 17:44
S75	3	(4429339 4751408).pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/04/15 10:17
S76	37	("4042889"   "4158866"   "4173739"   "4301490"   "4375074").PN. OR ("4429339").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/15 10:32
S77	17	("0922218"   "1007671"   "1909855"   "3396314"   "3590334"   "4086503"   "4214290"   "Re24671").PN. OR ("4998177").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 12:04

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S35	99	voltage near dependent near resistor with (switch transistor mos fet bjt bipolar)	USPAT; UPAD	OR	ON	2010/04/12 19:51
S36	116	voltage near dependent near resistor and (coil induct\$4 relay) and (switch transistor mos fet bjt bipolar) near4 resistor	USPAT; UPAD	OR	ON	2010/04/12 19:52
S37	74	S36 not S35	USPAT; UPAD	OR	ON	2010/04/12 19:52
S39	33	voltage near dependent near resistor with (coil relay induct\$4)	USPAT; UPAD	OR	ON	2010/04/13 09:34
S40	74	voltage near dependent near resistor same (coil relay induct\$4)	USPAT; UPAD	OR	ON	2010/04/13 10:06
S41	41	S40 not S39	USPAT; UPAD	OR	ON	2010/04/13 10:06
S44	1	(plurality many) near (switch transistor fet mos bjt bipolar) with (by\$1pass\$3 bridg\$3 across\$3) near resistor same (coil relay induct\$4)	USPAT; UPAD	OR	ON	2010/04/13 11:07
S45	14	plurality near2 (switch transistor fet mos bjt bipolar) with (by \$1pass\$3 bridg\$3 across\$3) near resistor and (coil relay induct\$4)	USPAT; UPAD	OR	ON	2010/04/13 11:08
S46	112	plurality near2 (switch transistor fet mos bjt bipolar) with (by \$1pass\$3 bridg\$3 across\$3) with resistor and (coil relay induct\$4)	USPAT; UPAD	OR	ON	2010/04/13 11:11

S48	98	S46 not S45	USPAT; UPAD	OR	ON	2010/04/13 11:11
S49	25	("3644927"   "3702473"   "3716834"   "4077030"   "4118700").PN. OR ("4423410").URPN.	US-PGPUB; USPAT	OR	ON	2010/04/13 11:18

7/27/2010 3:20:47 PM

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